

-1- (JAPIO)
ACCESSION NUMBER
TITLE
PATENT APPLICANT
INVENTORS
PATENT NUMBER
APPLICATION DETAILS
SOURCE

86-153948
ALKALINE STORAGE BATTERY
(2000307) TOSHIBA CORP
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INT'L PATENT CLASS
JAPIO CLASS

H01M-004/38; H01M-004/42
42.9 (ELECTRONICS--Other); 14.2 (ORGANIC
CHEMISTRY--High Polymer Molecular Compounds)

ABSTRACT

PURPOSE: To reduce the generation of hydrogen gas in an alkaline storage battery by covering the surface of a negative electrode active material made of active metal with vinyl polymer film and using the active material with the electrolyte of a caustic alkaline aqueous solution to obtain the negative electrode black mix.

CONSTITUTION: The negative electrode black mix in a sealed alkaline storage battery is formed by using a negative electrode active material made of active metal such as zinc and the electrolyte of a caustic alkaline aqueous solution as the essential components. In this case, the surface of the negative electrode active material is covered with the vinyl polymer film whose monomer unit is indicated by an expression $(CH(\text{sub } 2)=CR(\text{sup } 1)R(\text{sup } 2))$, $(R(\text{sup } 1))$ and $(R(\text{sup } 2))$ are selected from a hydrogen atom, halogen element, nitrile group, etc.) at a thickness of 0.01 to 70 μm . As a result, since the film functions as a protective coat against the caustic alkaline aqueous solution and the dissolution of the negative electrode active material is suppressed, the generation of hydrogen gas can be reduced without mercury and such.